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EXAMINER

BONURA, TIMOTHY M

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2114

DATE MAILED: 04/26/2004

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/833,835

Applicant(s)

BERGSTEN ET AL.

Examiner

Tim Bonura

Art Unit

2114

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10, 12, 13 and 21 is/are rejected.
- 7) ☒ Claim(s) 11 and 14-20 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2 and 5.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 4, 6-10, 12-13, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Chu, et al, U.S. Patent Number 6,629,144.

3. Regarding claim 1:

- a. Regarding the limitation of “establishing a communication session between a client and a server,” Chu discloses a system that can establish a connection between a client and a server. (Lines 15-22 of Column 15, also see Figure 5b item 110).

- b. Regarding the limitation of “storing session information associated with the communication session between the client and the server in a first log file stored in a persistent volatile memory” Chu discloses a system (114) that stores session information on volatile memory at the server and sends the token to the client which is to be stored on non-volatile memory. (Lines 50-60 of Column 8 and Lines 19-23 of Column 9).

- c. Regarding the limitation of “storing the session information in a cache file stored in a volatile memory of the server” Chu discloses a system wherein session information, is stored on memory that upon a computer crash, would be lost. (Lines 29-37 of Column 15, also see Figure 5b item 114).

- d. Regarding the limitation of “reconstructing the cache file after a server failure using the session information stored in the first log” Chu discloses a system (115) in which the information stored in the log is used to re-establish connection to the sever. (Lines 19-23 of Column 9).
4. Regarding claim 2, Chu discloses a system with a token that is sent from the server to the host, and stored on the server and client to permit a connection. (Lines 55-60 of Column 8).
5. Regarding claim 4, Chu discloses a system with means of substituting the client information in the case of a client failure. The new client session information is stored on the server. (Lines 42-51 of Column 15).
6. Regarding claim 6, Chu discloses a system wherein a client refresh period occurs and the client sends a refresh request. (Lines 45-49 of Column 14 and Figure 5a items 107 and 108 and the “no” line).
7. Regarding claim 7, Chu discloses a system wherein the token session information of the client does not match the stored information on the server. An error message is sent to the client and the log-on request does not proceed. (Line 52-53 of Column 15).
8. Regarding claim 8, Chu discloses a system with the ability to store online session user info for a client system comprising a directory database. (Lines 29-36 of Column 15).
9. Regarding claim 9, Chu discloses a system with the ability to accept multiple requests for a client server and update the user information. (Lines 47-51 of Column 15).
10. Regarding claim 10, Chu discloses a system wherein each request by a client will result in a new token being created by the server and sent to the client. (Lines 55-59 of Column 15).

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11. Regarding claim 12, Chu discloses a system wherein a client session will be terminated and a log-on request will not be processed. (Lines 52-53 of Column 15).

12. Regarding claim 13:

e. Regarding the limitation of “a persistent volatile memory,” Chu discloses a system (114) that stores session information on volatile memory at the server and sends the token to the client which is to be stored on non-volatile memory. (Lines 50-60 of Column 8 and Lines 19-23 of Column 9).

f. Regarding the limitation of “a first log file, stored in the persistent volatile memory, containing session information,” Chu discloses a system (114) that stores session information on volatile memory at the server and sends the token to the client which is to be stored on non-volatile memory. (Lines 50-60 of Column 8 and Lines 19-23 of Column 9).

g. Regarding the limitation of “a record cache storing a record of session information” Chu discloses a system with the ability to store online session user info for a client system comprising a directory database. (Lines 29-36 of Column 15).

h. Regarding the limitation of “an execution thread appending the session information stored in the record cache to the first log file,” Chu discloses a system that can add or refresh an entry to the directory database from the client. (Lines 15-22 of Column 15).

i. Regarding the limitation of “a database cache storing the session information after the session information has been stored in the first log file; wherein the database cache is reconstructed after a server failure using the session information stored in the first log

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file,” Chu discloses a system wherein upon failure the stored database information is used to identify a previously logged-on client. (Lines 18-25 of Column 16).

13. Regarding the claim 21:

j. Regarding the limitation of “means for establishing a communication session between a client and a server,” Chu discloses a system that can establish a connection between a client and a server. (Lines 15-22 of Column 15, also see Figure 5b item 110).

k. Regarding the limitation of “means for storing session information associated with the communication session between the client and the server in a first log file stored in a persistent volatile memory” Chu discloses a system (114) that stores session information on volatile memory at the server and sends the token to the client which is to be stored on non-volatile memory. (Lines 50-60 of Column 8 and Lines 19-23 of Column 9).

l. Regarding the limitation of “means for storing the session information in a cache file stored in a volatile memory of the server” Chu discloses a system wherein session information, is stored on memory that upon a computer crash, would be lost. (Lines 29-37 of Column 15, also see Figure 5b item 114).

m. Regarding the limitation of “means for reconstructing the cache file after a server failure using the session information stored in the first log” Chu discloses a system (115) in which the information stored in the log is used to re-establish connection to the sever. (Lines 19-23 of Column 9).

Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chu as applied to claim 1 and 4 above, and further in view of Gusler, et al, U.S. Patent Application 09/316,752. Regarding claim 3, Chu discloses a system (114) that stores session information on volatile memory at the server and sends the token to the client which is to be stored on non-volatile memory. (Lines 50-60 of Column 8 and Lines 19-23 of Column 9). Chu does not disclose a system the can scan the session information for information purposes. Gusler discloses a system that can scan the log entries to determine the status of log entries. (Page 4, Paragraph 0046, Last 5 Lines). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the token logging and storing of Chu with the scan of the log information of Gusler. One of ordinary skill in the art would have combine the art because Chu discloses that the server permits the client to relog onto the server with the previous token the server has sent out upon matching the token. (Lines 15-19 of Column 4).

16. Regarding claim 5, Chu discloses a system (114) that stores session information on volatile memory at the server and sends the token to the client which is to be stored on non-volatile memory. (Lines 50-60 of Column 8 and Lines 19-23 of Column 9). Chu also discloses a system with means of substituting the client information in the case of a client failure. The new client session information is stored on the server. (Lines 42-51 of Column 15). Chu does not

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disclose a system the can determine the size of a log file. Gusler discloses a system that can set a policy to scan log file for size of a log file and remove it from the log file. (Page 4, Paragraph 0048, Lines 3-10). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the token logging and storing of Chu with the scan of the log information of Gusler. One of ordinary skill in the art would have combine the art because Chu discloses that the server permits the client to relog onto the server with the previous token the server has sent out upon matching the token. (Lines 15-19 of Column 4).

Allowable Subject Matter

17. Claims 11, and 14-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

18. The following is a statement of reasons for the indication of allowable subject matter:

n. Regarding claim 11, the prior art of record does not teach of a method locking the server, deleting the first log file; and scanning the database to recreate information stored in a data structure, wherein the information stored in the data structure comprises an index of the cache file.

o. Regarding claims 14-20, the prior art of record does not teach of a method a flushing thread transferring the session information stored in the database cache to the database.

Conclusion

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tim Bonura**.

- The examiner can normally be reached on **Mon-Fri: 7:30-5:00, every other Friday off**. The examiner can be reached at: **703-305-7762**.

20. If attempts to reach the examiner by telephone are unsuccessful, please contact the examiner's supervisor, **Rob Beausoliel**.

- The supervisor can be reached on **703-305-9713**.

21. The fax phone numbers for the organization where this application or proceeding is assigned are:

- **703-872-9306 for all patent related correspondence by FAX.**

22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov/>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

23. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **receptionist** whose telephone number is: **703-305-3900**.

24. Responses should be mailed to:

- **Commissioner of Patents and Trademarks**
P.O. Box 1450

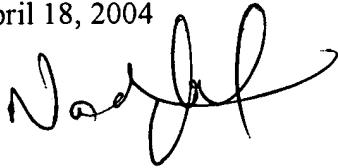
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Tim Bonura
Examiner
Art Unit 2114

tmb
April 18, 2004

A handwritten signature in black ink, appearing to read "Naheed", with a stylized, flowing script.

**NADEEM IQBAL
PRIMARY EXAMINER**